

Protecting Your Employees, Your Equipment & Your Assets

OSHA standards recommend that employers protect employees from the dangers of an arc flash. GLOBAL FACILITY SOLUTIONS can help you by performing a risk assessment associated with Arc Flash.

Our Arc Flash Risk Assessment provides a complete study and analysis of your equipment along with installation of Arc Flash Hazard Warning Labels to meet the requirement per NFPA 70E.

WHAT IS AN ARC FLASH?

- » An Arc Flash is the result of a rapid release of energy caused by an arcing fault between the phase bus bars, neutral or ground. The results can be disastrous!
- » An Arc Flash can reach or exceed temperatures of 35,000°F or 3.5 times the temperature of the surface of the sun.
- » An Arc Flash creates extremely high heat and/or explosions that may cause severe burns, blinding light, or serious bodily injury to workers and case cause damage to and destruction of building systems including electrical and HVAC equipment.

Details of the Arc Flash Risk Assessment

DATA COLLECTION: Our qualified engineers will gather information such as data from the utility, including primary system voltage, utility transformer impedance values, the utility company's protective equipment, and available fault current.

POWER SYSTEM MODELING: Utilizing up-to-date facility drawings and/or in-field investigation, electric service one-line diagrams will be entered into system modeling software.

SHORT-CIRCUIT STUDY: Our team will determine the magnitude of current available at a specific point within an electrical distribution system if a "fault" or short-circuit occurs.

PROTECTIVE DEVICE COORDINATION: A study of protective devices will be performed to ensure the selection and arrangement of such devices will limit the effects of an over-current situation to the smallest area.

ARC FLASH CALCULATIONS: Our engineers will use available short-circuit current, protective device clearing time and distance from the arc to calculate arc flash potential.

REPORTING: Upon completion of the calculations, GFS will prepare your report, which includes an updated one-line diagram, short-circuit study, protective device coordination study and arc flash analysis. Upon management approval, we submit a final report stamped by our registered P.E.

LABEL INSTALLATION: Finally, GFS will generate and install arc flash hazard warning labels. The labels identify incident energy and working distance, nominal system voltage, and the arc flash boundary.

Contact us today to schedule your arc flash assessment.

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Learn more at gfsolutionsllc.com/arcflash